

REMARKS

In view of the above amendments and the following remarks, reconsideration of the rejections contained in the Office Action of April 1, 2009 is respectfully requested.

By this Amendment, claim 1 has been amended, and is currently pending in the application. No new matter has been added by these amendments.

On pages 2-3 of the Office Action, the Examiner rejected claim 1 under 35 U.S.C. § 102(b) as being anticipated by Ernsthausen et al. (US 4,109,176). For the reasons discussed below, it is respectfully submitted that the amended claim is clearly patentable over the prior art of record.

The present invention is directed to a plasma display panel (PDP) in which impurity gasses (hydrocarbons) within the PDP are reduced at a low temperature due to the simultaneous use of two catalysts so as to improve the picture quality and prolong the life of the PDP. In particular, as described on page 7 of the original specification, one catalyst is a catalyst which accelerates oxidation of the hydrocarbons, and is one of Pd, Pt, Rh, Co₃O₄, PdO, Cr₂O₃, Mn₂O₃, CoO, and NiO. Further, as described on pages 8-9 of the original specification, the other catalyst accelerates decomposition of the hydrocarbons and initiates addition polymerization, and is one of Co, Ti or Ni.

Amended independent claim 1 recites a plasma display panel comprising a front panel including a display electrode, a dielectric layer and a protective layer sequentially formed on a first glass substrate, and a back panel confronting the front panel and including an address electrode, a base dielectric layer, a barrier rib and a phosphor layer sequentially formed on a second glass substrate. Claim 1 also recites that the front panel and the back panel are disposed so as to confront each other and being sealed at outer walls of the front panel and the back panel with a sealing member so as to form an inner space between the protective layer of the front panel and the phosphor layer, barrier rib and base dielectric layer of the back panel. Claim 1 also recites first and second catalysts provided on at least one of the base dielectric layer, the barrier rib and the phosphor layer so as to be exposed to the inner space and react with a hydrocarbon existing in the inner space.

Further, claim 1 recites that *the first catalyst is at least one of a catalyst which*

accelerates oxidization of a hydrocarbon and is selected from the group consisting of Pd, Pt, Rh, Co₃O₄, PdO, Cr₂O₃, Mn₂O₃, CoO, and NiO. In addition, claim 1 recites that the second catalyst accelerates decomposition of a hydrocarbon and is selected from the group consisting of Co, Ti and Ni.

Ernsthausen discloses a gas discharge device which, as shown in Fig. 5, includes conductors 13 and 14, dielectric layers 410a and 411a, and layers 410 and 411. Further, Ernsthausen discloses that the layers 410 and 411 include at least one element selected from Cu, Ag, Cd, Hg and Zn.

However, Ernsthausen does not disclose first and second catalysts, wherein the first catalyst is at least one of a catalyst which accelerates oxidization of a hydrocarbon and is selected from the group consisting of Pd, Pt, Rh, Co₃O₄, PdO, Cr₂O₃, Mn₂O₃, CoO, and NiO, and wherein the second catalyst accelerates decomposition of a hydrocarbon and is selected from the group consisting of Co, Ti and Ni, as required by independent claim 1. Rather, Ernsthausen only discloses that the layers 410 and 411 include at least one element selected from Cu, Ag, Cd, Hg and Zn, and therefore does not disclose a first catalyst selected from the group consisting of Pd, Pt, Rh, Co₃O₄, PdO, Cr₂O₃, Mn₂O₃, CoO, and NiO and a second catalyst selected from the group consisting of Co, Ti and Ni, as required by independent claim 1. Accordingly, it is respectfully submitted that claim 1 is not anticipated by Ernsthausen.

Further, it is noted that Ernsthausen discloses that the inclusion of at least one of Cu, Ag, Cd, Hg and Zn in the dielectric of the gas discharge device enables the storage of surface charges in the dielectric. However, Ernsthausen does not disclose or suggest that any of the elements is a catalyst which accelerates oxidization of a hydrocarbon, or that any of the elements is a catalyst which accelerates decomposition of a hydrocarbon, as required by claim 1.

Therefore, it is respectfully submitted that independent claim 1 is clearly allowable over the prior art of record.

In view of the foregoing amendments and remarks, it is respectfully submitted that the present application is clearly in condition for allowance. An early notice to that effect is respectfully solicited.

If, after reviewing this Amendment, the Examiner feels there are any issues remaining which must be resolved before the application can be passed to issue, the Examiner is respectfully requested to contact the undersigned by telephone in order to resolve such issues.

The Commissioner is authorized to charge any deficiency or to credit any overpayment associated with this communication to Deposit Account No. 23-0975, with the EXCEPTION of deficiencies in fees for multiple dependent claims in new applications.

Respectfully submitted,

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